3.1.1.6.1 Weather Observations Processing

The System provides for the entering, editing, and transmitting of METARs and Special METARs (SPECIs). The System, as a minimum, provides the functional capability to include the various data for weather observation processing.

The System provides the user with the capability to specify whether a METAR is to be transmitted immediately or whether it is to be held and transmitted with other METARs, as a group, on an hourly basis.

a) The System must [1573] provide the capability to enter multiple weather observations.

b) The System must [1574] provide the capability to enter multiple correction weather observation messages.

c) The System must [1575] provide the capability to edit multiple weather observations.

d) The System must [1576] provide the capability to transmit multiple weather observations.

e) The weather observations must [1577] include METARs.

f) The weather observations must [1578] include SPECIs.

g) The System must [1579] format weather observation messages for transmission IAW WMO-386 and WMO-306.

   1) The System must [1580] provide the capability to include the Station ID for the origin of the observation data.

   2) The System must [1581] provide the capability to include the Observation Time data.

   3) The System must [1582] provide the capability to include the Report type (METAR or Special).

   4) The System must [1583] provide the capability to include Wind (direction and speed) data.

   5) The System must [1584] provide the capability to include Visibility data.

   6) The System must [1585] provide the capability to include Weather (present weather) data.

   7) The System must [1586] provide the capability to include Sky Condition data.

   8) The System must [1587] provide the capability to include Temperature/Dew Point data.

   9) The System must [1588] provide the capability to include Altimeter Setting data.

   10) The System must [1589] provide the capability to include Runway Visual Range data.

   11) The System must [1590] provide the capability to include Remarks data.

h) The System must [1591] provide the capability to queue user-designated weather observations for hourly transmission.

i) The System must [1592] provide the capability to immediately transmit weather observations.

j) The System must [1593] validate weather observation messages for transmission IAW WMO-386 and WMO-306.

   1) The System must [1594] only transmit a weather observation message if no errors are found.